

NPS work plan

Removal of Disturbed Asbestos Containing Material in the Amphitheater Parking Lot in Valley Forge National Historical Park

SCOPE OF WORK: Provide all equipment, supplies and materials necessary to containerize, remove, and dispose of all asbestos containing materials (ACM) in the Southeast end of the Amphitheater Parking Lot that was disturbed by excavation (Approximately 15 to 30 tons. Weight will vary according to moisture content.) and remediate the site as required by these specifications.

SPECIFICATIONS:

(1) As required by the OSHA Standards, a "Competent Person", as defined by 29 CFR 1926.32 and 1926.1101, shall be designated by the Contractor to be in charge of the work performed on the site. For purposes of this contract, the Competent Person shall also be knowledgeable of 29 CFR 1910.120, 40 CFR 61, 25 PCS 299, 25 PCS 287 and Public Safety and have direct authority from the contractor to implement appropriate control measures in the event of a release of ACM into the environment, on site or during transportation of the material. The Competent Person shall have knowledge of asbestos, control strategies, and existing asbestos hazards and shall have direct authority from the contractor to implement or change strategies; and eliminate hazards. The Competent Person shall be on site while work is being performed and shall be available on an on-call basis after work hours should ACM containment or containers be breached, and shall have direct authority from the contractor to immediately respond with sufficient personnel and equipment to contain the material and prevent its release into the environment. The name of the Competent Person, along with contact phone numbers shall be provided to the Park Safety Specialist prior to work commencement.

(2) All asbestos containing material in the excavated spoil pile along the trench sides shall be containerized in a manner which prevents release, as required by 25 PCS 299 and is suitable for disposal at a permitted disposal facility in compliance with 25 PCS 287. The material shall be properly labeled in compliance with OSHA, EPA and State regulations, transported to a landfill permitted by the Pennsylvania Department of Environmental Protection (PADEP), and disposed of in compliance with all applicable Federal and State Regulations. The Contractor shall be responsible for submitting an original or certified copy to the Park of an Asbestos or Non-Hazardous Waste manifest from the permitted landfill where the ACM was interred. The manifest shall have the complete address of the receiving landfill; date & time of receipt; and description and weight of the material received. The manifest shall be signed by an accepting official at the designated landfill.

46 (3) During the cleanup operation, transportation and interment of the material, the
47 Contractor shall be responsible for ensuring that there is no release of the material
48 into the environment in violation of 40 CFR 61 and 25 PCS 299. The area of the
49 spoil pile being worked and surrounding areas shall be saturated with water, or an
50 approved wetting agent, and the moving/working of all Asbestos Containing
51 Material (ACM) shall be done while the material is wet as defined by 29 CFR
52 1926.1101. Wetting agents containing surfactants or emulsifiers mixed with water
53 may be used to more effectively wet the ACM and surrounding areas. Technical
54 information and a Material Safety Data Sheet (MSDS) for the wetting agent must
55 be submitted to the Park Safety Specialist for approval prior to use.

56
57 (4) All ACM and ACM contaminated areas shall remain covered with a minimum
58 of 6 mil plastic sheeting or equivalent, and kept wet when not being worked by the
59 contractor. The sheeting shall be reasonably secured in a fashion that withstands
60 wind and other environmental problems. The area is currently plastic covered.
61 However, the contractor must have plastic sheeting on hand should the existing
62 sheeting deteriorate or be breached, and to cover additional areas of contamination.

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64 (5) For the requirements of this contract, the Contractor shall be responsible for the
65 safety of the Public, and Public Safety shall be addressed in the Site Specific Safety
66 and Health Plan required by 29 CFR 1910.120. The Contractor shall designate a
67 Safety Zone sufficient in size to protect the public should there be a release of the
68 material, and provide all materials necessary to maintain a perimeter barrier to the
69 Public, Park Employees, and others not directly associated with contract work or
70 supervision. The Safety Zone perimeter shall be signed in English, informing others
71 of the specific hazard as specified in 29 CFR 1926.1101 and shall read:

72
73 **DANGER**
74 **ASBESTOS**
75 **CANCER AND LUNG DISEASE HAZARD**
76 **AUTHORIZED PERSONNEL ONLY**
77

78 (6) The Contractor shall be responsible for the safety of their employees, and any
79 subcontractor employees on the site, and shall comply with all required medical
80 monitoring, exposure assessments, air sampling, respiratory protection, personal
81 protective equipment, decontamination, and training, as well as other applicable
82 and mandatory provisions required by 29 CFR 1926.1101 and 29 CFR 1910.120. A
83 site specific Safety & Health Plan shall be submitted to and approved by the Park
84 Safety Specialist prior to any work being performed. The contractor shall be
85 responsible for insuring that all workers are properly trained; respirator fit tested;
86 and equipped in compliance with these standards and that all required medical
87 monitoring has been completed. All personal protective equipment; training
88 certificates; medical monitoring records; exposure assessments & monitoring;
89 respirator fit test documentation; and air sampling protocols shall be made available
90 to the Park Safety Specialist upon request.

92 **(7)Original or Certified Copies of all air monitoring results shall be provided to the**
93 **Park as analytical proof that an airborne release of ACM has not occurred. Air**
94 **monitoring tests shall be reported in fiber(s) per cubic centimeter. Air monitoring**
95 **shall be performed as specified in 29 CFR 1926.1101 and 29 CFR 1926.1101**

96 **Appendix A.**

97

98 **(8)Decontamination wastes from personnel, tools, and equipment shall be treated as**
99 **ACM and shall be collected and containerized for disposal at the permitted landfill**
100 **in compliance with 40 CFR 61, 25 PCS 299 and 25 PCS 287. The contractor shall be**
101 **responsible for ensuring that there is not a release of decontamination waste into the**
102 **environment.**

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104 **(9)Once the ACM has been removed, in compliance with 40 CFR 61.53, the**
105 **excavated trench containing fiber optics and copper cables, shall be backfilled and**
106 **compacted by the Contractor using a suitable asbestos free clean dirt/soil fill and the**
107 **surface adjacent to the trench shall be covered with a minimum of 6 (six) inches of**
108 **clean loosely compacted fill for a width of 6 (six) feet or as practical, to encapsulate**
109 **any ACM which may not have recovered for disposal. The contractor is responsible**
110 **for any settlement or erosion that is evident at the end of the warranty period. The**
111 **trench and surrounding surface area which may have been contaminated with ACM**
112 **shall be kept wet and plastic covered until the fill is in place. If fill material is**
113 **unsuitable to support grass growth, top soil shall be added to a depth of 4 inches**
114 **over the entire fill area.**

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116 **(10) The fill area shall be broadcast seeded using a mixture of grass seed that is**
117 **suitable to the climate and the area, such as the mixture specified by the**
118 **Pennsylvania State Department of Transportation for grass seeding. The contractor**
119 **is responsible for grass cover, as required by 40 CFR 61.53, on all disturbed areas at**
120 **the end of the contract warranty.**

121

122 **(11)Care must be taken by the contractor not to damage or disturb the existing un-**
123 **covered fiber optics cable in the trench excavation during ACM cleanup, removal,**
124 **or fill remediation activities. Because the cable is lying on and surrounded by ACM,**
125 **contractor caused damage to the cable will be the responsibility of the contractor to**
126 **repair. Repair personnel shall be subject to the same OSHA worker protection**
127 **standards as the site workers as previously addressed.**

128

129 **(12)Because there appears to be an undetermined amount of undisturbed ACM**
130 **buried under the work site, at an unknown depth, no digging will be permitted**
131 **anywhere in the quarry area and the contractor shall use extreme care not to**
132 **disturb any buried ACM at the site. Should any of this buried ACM be disturbed**
133 **by the contractor, the contractor shall immediately halt the activity causing the**
134 **disturbance, implement wet measures to prevent a release, and immediately notify**
135 **the Park Safety Specialist.**

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139 **APPLICABLE FEDERAL AND STATE REGULATIONS:**

140 **A. U.S. Department of Labor - Occupational Safety & Health**

141 **Administration (OSHA)**

142 **29 CFR 1926.1101 - Asbestos**

143 **29 CFR 1926.1101 Appendix A - Sampling & Analytical**

144 **Procedure**

145 **29 CFR 1926.1101 Appendix C - Qualitative and Quantitative**

146 **Fit Testing Procedures**

147 **29 CFR 1926.1101 Appendix E - Interpretation and**

148 **Classification of Chest Roentgenograms**

149 **29 CFR 1910.120 - Hazardous Waste Operations and**

150 **Emergency Response**

151 **29 CFR 1910.120 Appendix B - Protection Levels and Levels of**

152 **Protective Gear**

153 **29 CFR 1910.120 Appendix C - Compliance Guidelines**

154

155 **B. U.S. Environmental Protection Agency (EPA)**

156 **40 CFR 61 (M) - National Environmental Standards for**

157 **Hazardous Air Pollutants**

158

159 **C. Commonwealth of Pennsylvania (PADEP)**

160 **Title 25 Pennsylvania Consolidated Statutes, Chpt. 287**

161 **Title 25 Pennsylvania Consolidated Statutes, Chpt. 299**

162 **Title 25 Pennsylvania Consolidated Statutes, Chpt. 125**

163

164 **The Contractor shall be responsible for complying with all applicable and**

165 **mandatory provisions of the regulations listed above.**

166

167 **SUBMITTALS:**

168 **Prior to initiating work, the contractor shall provide the following items to the Park**

169 **for review and approval:**

170 **Name, qualifications, and contact phone number(s) for the Contractor's**

171 **"Competent Person".**

172

173 **List of Subcontractor's (if any).**

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175 **Site Specific Safety & Health Plan**

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177 **Technical Information and MSDS for Wetting Agents to be used (if any).**

178

179 **Asbestos control measures to be taken, such as wetting methods; work**

180 **procedures and equipment used; container types; and decontamination**

181 **procedures and containment.**

182

183 **Landfill information where ACM will be taken, such as name & address of**

184 **facility and state permit number.**

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186 **Fill/top soil methods of application and seeding method to be used.**

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189 **Prior to disposal of ACM:**

190 **Certified Empty weight of truck(s) and containers (if lined dumpster is used).**

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192 **Post Disposal of ACM:**

193 **Non-hazardous Waste or Asbestos Manifest from permitted landfill.**

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195 **Air monitoring results.**

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197 **Certified weight tickets for clean fill and or top soil.**

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199 **NOTE: The Contracting Officer reserves the right to require submittals in addition**
200 **those called for in the specifications.**

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202 **PRECONSTRUCTION CONFERENCE:** A preconstruction meeting shall be held
203 **at the Park to discuss contract provisions and specifications prior to work**
204 **commencement. The Contractor's "Competent Person" shall attend the**
205 **preconstruction conference.**

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207 **SITE INSPECTIONS:** The Park Safety Specialist shall serve as the Contracting
208 **Officer's Technical Representative for this contract. The Park Safety Specialist**
209 **shall conduct periodic inspections of the work being performed and may conduct**
210 **independent air monitoring of the site. The contractor shall be responsible for**
211 **providing decontamination for the Park Safety Specialist, as well as change room**
212 **facilities as required by the OSHA Standards. Prior to entry the Competent Person**
213 **shall brief the Safety Specialist on site procedures and site safety. The PADEP On**
214 **Scene Coordinator may wish to conduct site inspections and provide monitoring**
215 **activities as well, and shall be extended these same courtesies.**

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217 **WORK COMPLETION CERTIFICATION:** PADEP may wish to have an On
218 **Scene Coordinator review the air sampling data, disposal documentation and certify**
219 **remediation. Should the On Scene Coordinator waive this function, the Park Safety**
220 **Specialist shall certify work completion as to contract specifications.**

221

222	<u>BID SCHEDULE:</u>	Unit Price	Total
223			
224	Mobilization	-----	\$ _____
225	(planning , preparation,		
226	personnel, & equipment)		
227			
228	Containerization	\$ _____ per ton	\$ _____
229	(placing ACM in		
230	containers which		
231	prevents release & is		
232	acceptable to per-		

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mitted landfill)

Disposal \$ _____ per ton \$ _____
(transportation &
disposal of ACM)

Remediation (estimated 35 tons of top soil and /or clean fill)

Clean fill	\$ _____ per ton	\$ _____
Top soil	\$ _____ per ton	\$ _____
Seeding	-----	\$ _____